

Rail Resource Allocation Planand Proposed Six-Year Improvement Plan Rail Allocations

Kevin Page Chief of Rail Transportation

Rail Advisory Board January 8, 2009

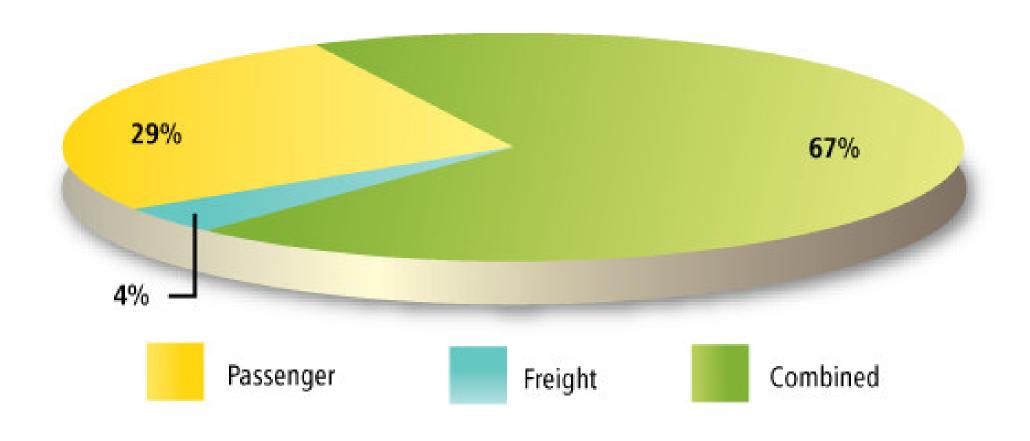
The Rail Resource Allocation Plan was released in December 200 Public comments will be accepted until January 14, 2009.

Potential rail project costs have been updated to \$6.6 billion

 The current proposal excludes shortline railroad projects and public transportation projects such as Metro and Norfolk Light Rail, which are funded in other programs

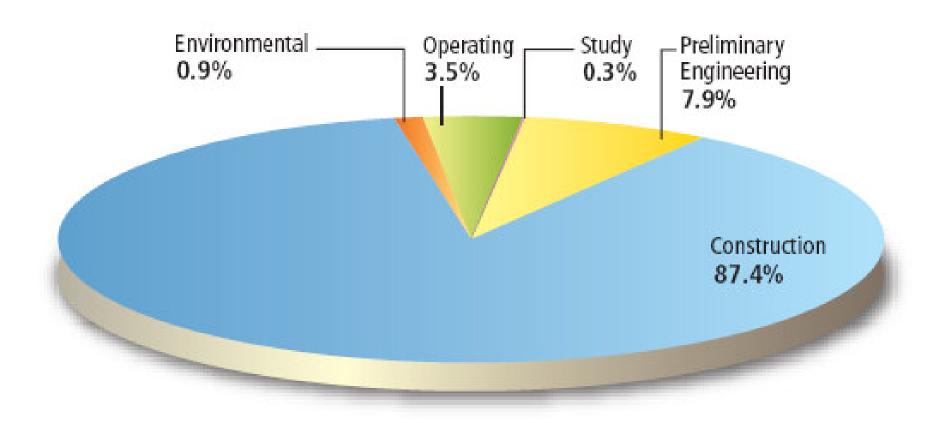
Eight discrete projects (separated into 27 phases) led to the development of recommended six-year approach to priorities and funding

Projects for Funding by Project Type



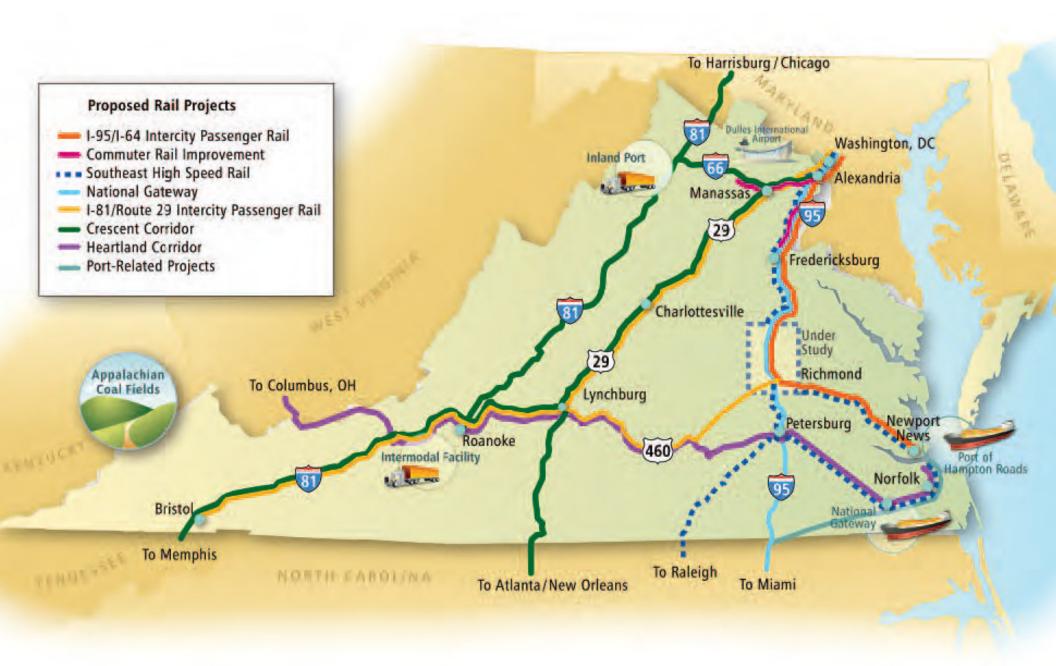
Emphasis on dual benefit projects, consistent with the Draft Statewide Rail Plan

Cost Percentage by Activity



Emphasis on design/project readiness and construction

Project N



FY2009 - FY20

oject	Total Es	stimated Cost	To	otal Propo Func
5/I-64 Passenger Rail	\$	163,678,171	\$	114,574,
mmuter Rail Improvements	\$	18,213,000	\$	12,314,
1/Route 29 Passenger Rail	\$	32,640,000	\$	22,848,
tional Gateway Phase 1	\$	104,382,723	\$	19,356,
artland Corridor Phase 1	\$	18,100,000	\$	12,670,
rt Improvements Phase 1	\$	2,161,714	\$	825,
1 Crescent Corridor Phase 1	\$	37,997,143	\$	26,598,
utheast High Speed Rail Phase1	\$	3,975,000	\$	2,345,
tal Capital Costs	\$	381,147,752	\$	211,531,
ree-Year Passenger Rail Operating (Demo)	\$	17,200,000	\$	17,200,
tal Costs (Capital and Operating)	\$	398,347,752	\$	228,731,

									_
			FISCAL YEAR						
PROJECT NAME	АРР	Previous Allocation 2009 9/18/2008	2009 1/21/2009	2010	2011	2012	2013	2014	то
ricksburg, Richmond and Newport News nger Rail Improvements	CSX	\$9,751,000							
redericksburg-DC Third Main Track	VRE	\$3,650,000							
64 Corridor Phase II, Crossroads to ton 3 rd Track, Acca Bypass, and Acca Yard	CSX			\$51,978,720	\$13,100,000	\$6,000,000	\$7,150,000	\$22,945,000	\$
natic Train Control System with Cab Signals	VRE	\$882,000							
herry Hill Station and Third Track Phase II	VRE	\$2,405,000							
ainesville-Haymarket Extension Phase II	VRE	\$3,250,000							
toute – Alexandria to Manassas	NS	\$649,797		\$591,837	\$108,627	\$2,172,787	\$1,670,327	\$583,724	
ville to Calverton Second Track	NS				\$3,322,200	\$6,275,267	\$6,275,267	\$6,275,266	
I-Lynchburg-Richmond Passenger Rail ity Modeling and Analysis	NS				\$700,000				
e Stack Bridge Clearance and Obstructions	CSX				\$326,900	\$623,000			
ia Avenue Tunnel Clearance	csx				\$2,323,100	\$5,361,000	\$5,361,000	\$5,361,000	:
oke Regional Intermodal Facility lemental)	NS	\$4,410,000	\$4,760,000						
oke Regional Intermodal Facility lemental Cove Hollow Road Relocation)	NS		3,500,000						
entral Rail Yard Expansion	VPA	\$700,000							
k Portsmouth Belt Line Railroad	VPA	\$125,000							
1 Crescent Corridor Phase I	NS		\$2,875,000		\$3,558,450	\$10,082,275	\$10,082,275		!
R Tier II EIS Phase 2	NC DOT	\$781,750		\$781,750	\$781,750				
MMENDED REF PROJECTS		\$29,604,547	\$11,135,000	\$53,352,307	\$24,221,027	\$30,514,329	\$30,538,869	\$35,164,990	\$

Rail Allocations

Project	Project Components to be Funded	Key Annual Public Benefit Findings at Steady State
I-95/I-64 Passenger Rail	One new train Washington, DC- Staples Mill Station, One new train set, Improved service efficiency	1.858,367 Cars removed 10,437,244 Gallons of fuel saved 62,057 tons CO ₂ emissions saved
Commuter Rail Improvements	Automatic train control system, track upgrades, final design Cherry Hill third track, engineering Gainesville-Haymarket extension	1.858,367 Cars removed 10,437,244 Gallons of fuel saved 62,057 tons CO ₂ emissions saved
I-81/Route 29 Passenger Rail	One new train Washington, DC- Lynchburg, track upgrades, route analysis Roanoke- Bristol	135,432 Cars removed 1,191,837 Gallons of fuel saved 8,897 tons CO ₂ emissions saved
National Gateway	Remove 5 bridge obstructions and begin construction of new Virginia Ave tunnel	260,000 Trucks removed 31,872,718 Gallons of fuel saved 61,705 tons CO ₂ emissions saved
Heartland Corridor	Roanoke Region Intermodal Facility – Relocate Cove Hollow Road and supplemental site and road cost contingency	150,000 Trucks removed 20,061,643 Gallons of fuel saved 55,804 tons CO ₂ emissions saved
Port Improvements	On-dock rail yard at NIT, marshalling yard improvements	180,310 Trucks removed 24,314,088 Gallons of fuel saved 47,072 tons CO ₂ emissions saved
I-81 Crescent Corridor	Engineering/construction of track upgrades	172,839 Trucks removed 27,544,285 Gallons of fuel saved 61,221 tons CO ₂ emissions saved
Southeast High Speed Rail	Complete Tier II Environmental Impact Statement Main St. Station- Raleigh	1,134,545 Cars removed 5,645,890 Gallons of fuel saved 33,713 tons CO ₂ emissions saved

1-95/1-64 Passenger F

Description: Three projects to improve passenger and freight rail operations with more frequent service, capaci and travel time savings between Hampton Roads, Richmond and Washington, DC, including service to the Northeast Corridor.

- ☐ Fredericksburg, Richmond, and Newport News Passenger Rail Improvements
- → VRE Fredericksburg DC Third Main Track
- Crossroads to Hamilton 3rd Track, Acca Bypass, and Acca Yard

Project type: Engineering and construction

Total project cost: \$163,678,171

Commonwealth's share:

\$114,574,720 (70%)

Previous FY2009 allocation:

\$13,401,000

Key Factors and Benefits (Steady State):

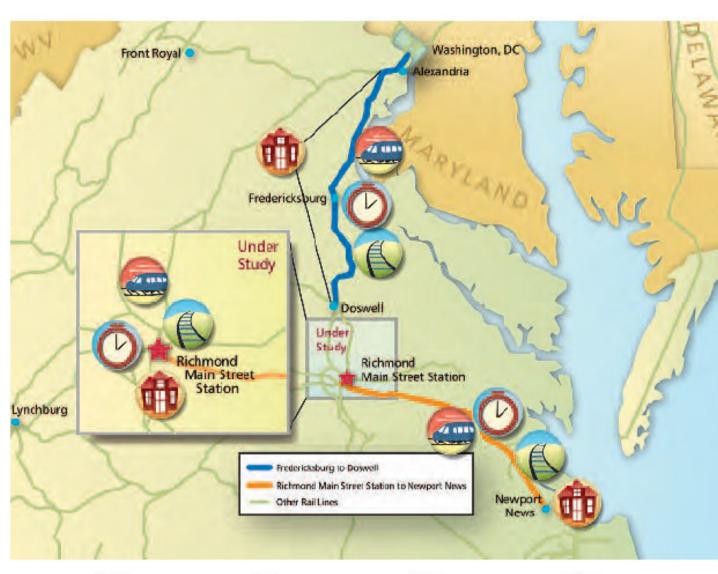
Cars removed off highways:

1,858,367 cars/yr

Gallons of fuel saved: 10,437,244

gallons/yr

Tons of CO₂ saved: 62,057 tons/yr





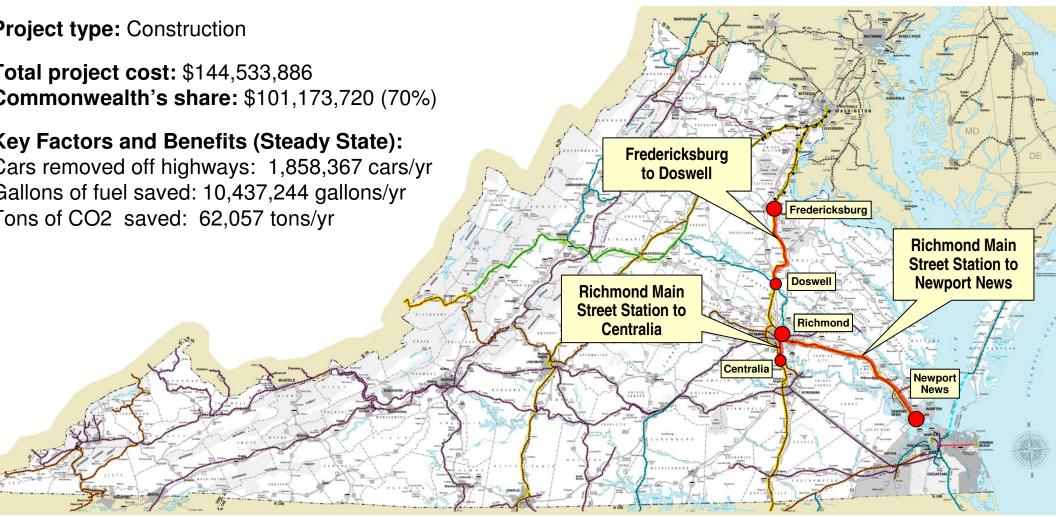






3. Crossroads to Hamilton 3rd Track, Acca Bypass, and Acca Yard

Description: CSX proposes to upgrade its facilities along the route between Fredericksburg, Doswell, Richmond Centralia and Newport News to allow existing and new passenger trains to utilize Richmond's Main Street Station and improve passenger and freight train performance along the I-95 and I-64 corridors in the Commonwealth. The project is for construction of projects identified in the previous environmental and engineering project.



Commuter Rail improveme

escription: Improvements in the VRE service area will increase on-time performance and upgrade the signal syst Epand stations between Manassas and Gainesville/Haymarket, construct a new station at Cherry Hill and provide Itomatic train control system to reduce potential accidents through advance warning and collision avoidance

が発色^IAQYomatic Train Control System th Cab Signals

VRE Cherry Hill Station and Third ack Phase 2

VRE Gainesville - Haymarket tension Phase 2 Study

VRE Route - Alexandria to Manassas

oject type: Environmental, Design, agineering and Construction

otal project cost: \$18,213,000

ommonwealth's share:

2,314,099 (68%)

evious FY2009 allocation:

,186,797

ey Factors and Benefits (Steady ate):

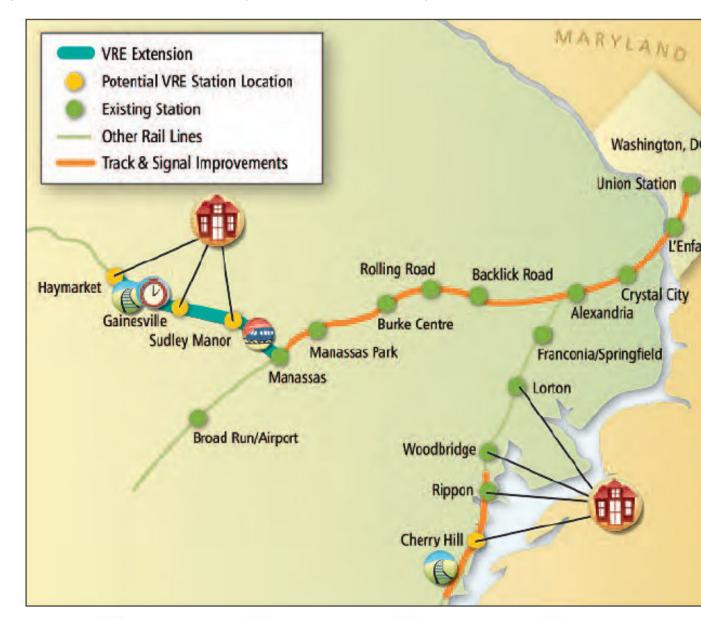
ars removed off highways: 625,772

allons of fuel saved: 2,239,056

ıllons/yr

rs/yr

ons of CO₂ saved: 10,500 tons/yr





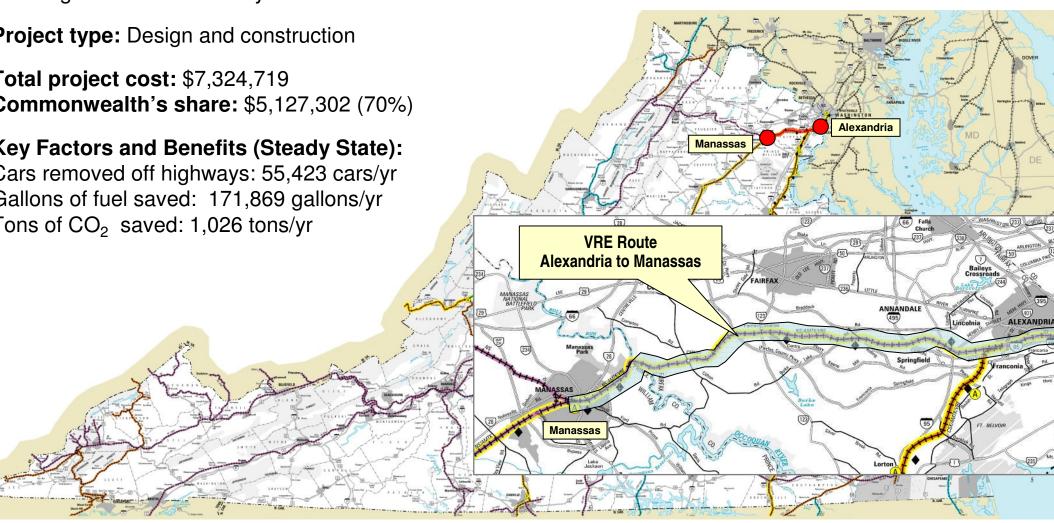






'. VRE Route - Alexandria to Manassas

Description: VRE is the primary operator on the two NS mainline tracks between Alexandria and Manassas. The project will provide capital improvements needed for NS to support Class 4 rail track standards for continued bassenger train use of the system.



1-81/Route 29 Passenger F

Description: To enhance passenger rail service along the Route 29, Interstate 81 and Route 460 corridors, the 81/Route 29 Intercity Passenger Rail Project will add new passenger rail service to Lynchburg, Roanoke and Bri connections to Richmond and Washington, DC, construct new stations to support the new service, increase cap through new passing tracks, and reduce travel time by improving rail infrastructure for higher speeds.











Nokesville to Calverton Second Track

Bristol to Lynchburg to Richmond Passenger Rail apacity Modeling and Analysis

oject type: Design, Engineering and Construction

tal project cost: \$32,640,000

Commonwealth's share: \$22,848,000 (70%)

Previous FY2009 allocation: \$0

Key Factors and Benefits (Steady State):

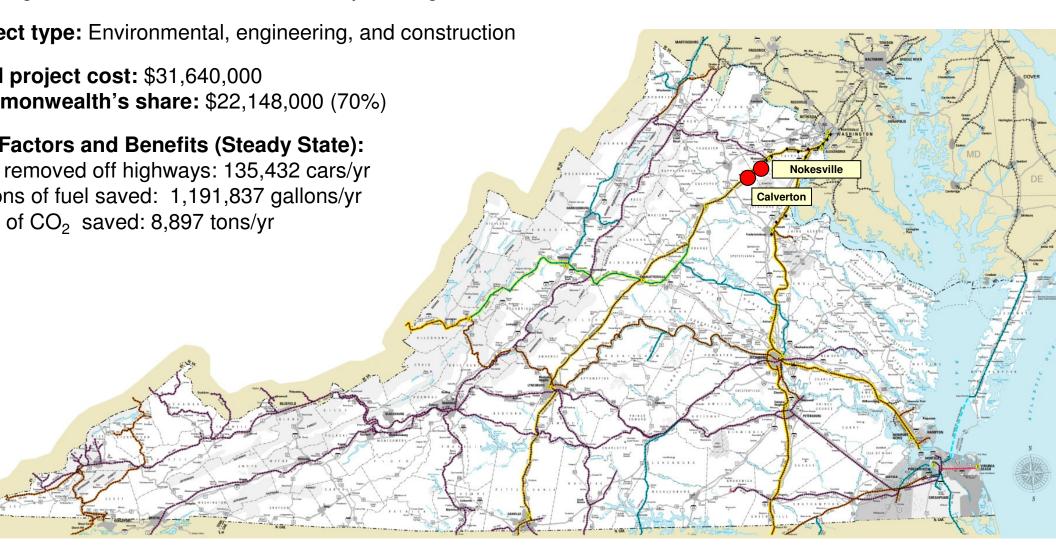
Trucks removed off highways: 135,432 trucks/yr

Gallons of fuel saved: 1,191,837 gallons/yr

Tons of CO₂ saved: 8,897 tons/yr

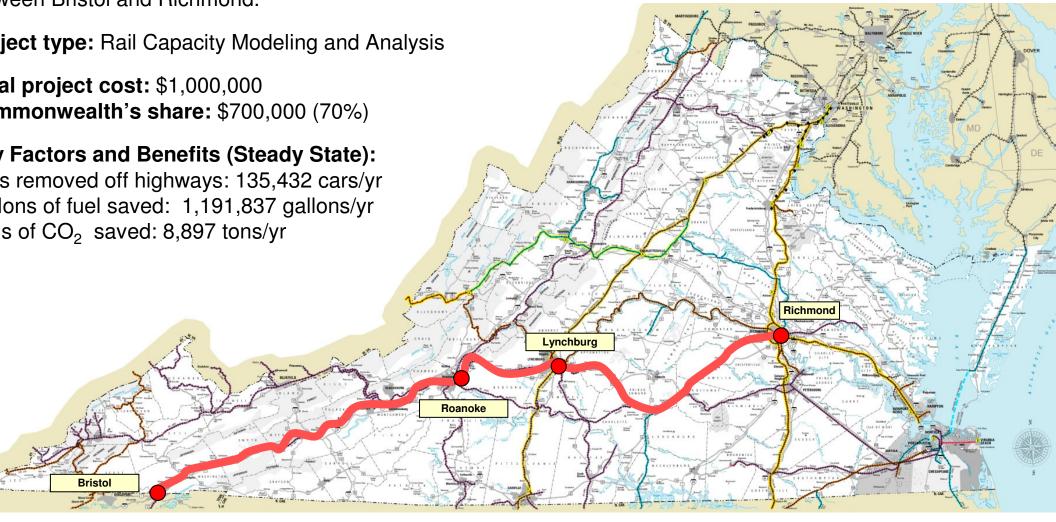
kesville to Calverton Second Track

cription: The purpose of this project is to improve passenger rail service in the I-81 and Route 29 rail dors. The project includes final design and construction of a 7.2 mile long second main line track in NS rightary between Nokesville and Calverton. This project will provide the necessary capacity to operate additional enger trains over this line section to Lynchburg, Roanoke and Bristol.



Bristol to Lynchburg to Richmond Passenger Rail Capacity Modeling and Analysis

cription: The purpose of this project is to improve passenger rail service in the I-81/Route 29 and Route /460 rail corridors. The project includes capacity modeling and analysis of the NS line section between Bristol Richmond to determine the necessary capacity improvements to initiate intercity passenger rail service yeen Bristol and Richmond.



national Gatew

cription: To improve the efficiency of freight rail shipping for the mid-Atlantic ports of Baltimore, MD, Virginia Wilmington, NC and markets in Pennsylvania, West Virginia, Ohio and other Midwestern states, the National

eway Project will divert freight traffic from way to rail and double the capacity for freight ments in the I-95 corridor by providing double-k clearances for freight containers, increase acity and service reliability through shington, DC to allow more trains to operate in heavily congested part of the corridor, support enhancement of VRE and Amtrak service in I-95 corridor and add a new freight yard to cort increased container traffic originating at inia's Ports.

ouble Stack Bridge Clearance and tructions

irginia Avenue Tunnel Clearance

ect type: Design, Engineering and

struction

al project cost: \$104,382,723

nmonwealth's share: \$19,356,000 (19%)

vious FY2009 allocation: \$0

Factors and Benefits (Steady State):

cks removed off highways: 260,000 trucks/yr ons of fuel saved: 31,872,718 gallons/yr

s of CO₂ saved: 61,705 tons/yr



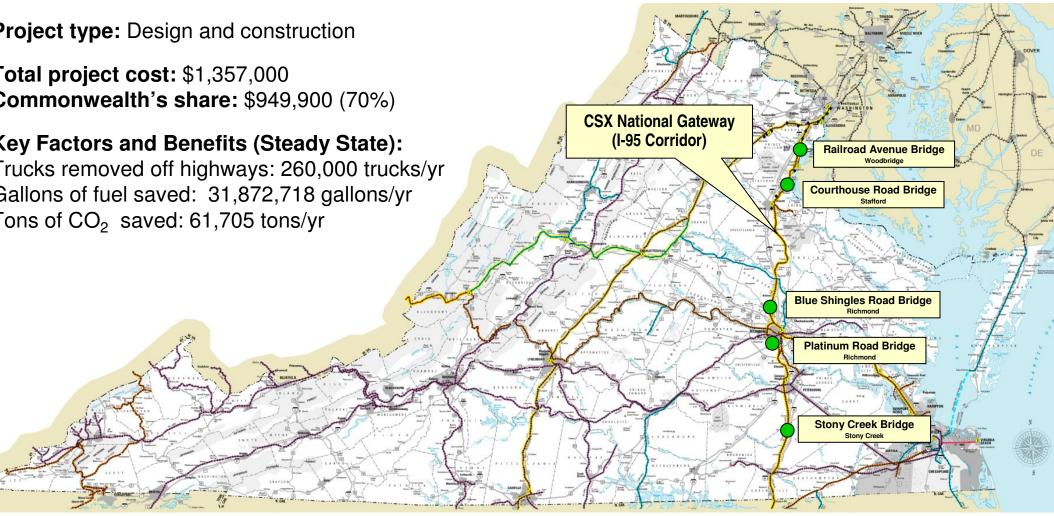


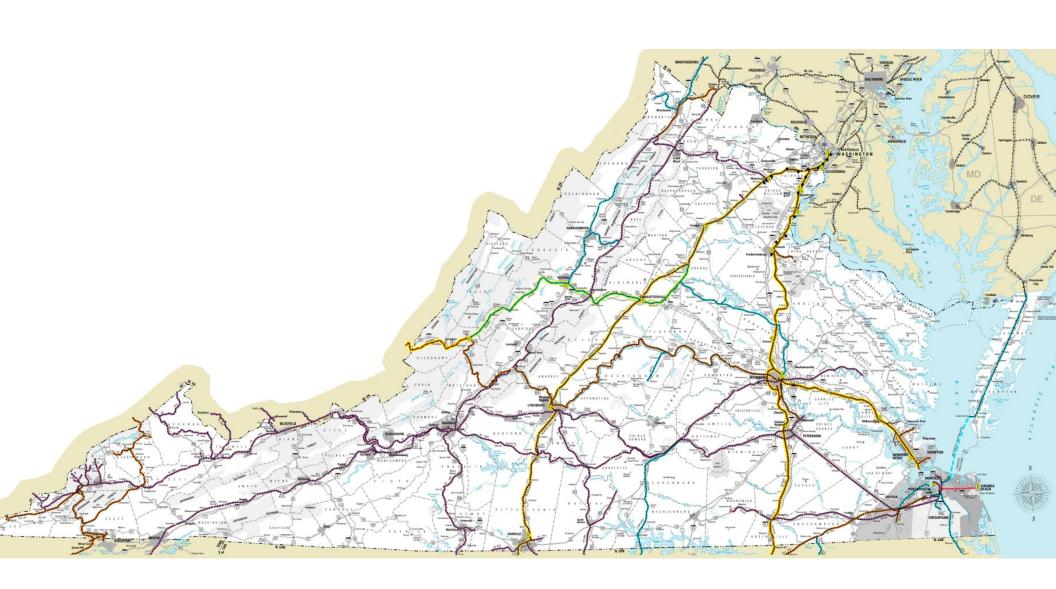




0. Double-Stack Rail Clearance and Obstructions

Description: This project will integrate Virginia into the National Gateway program to provide the Ports of Hampton Roads with an enhanced double-stack rail connection on the CSX system. This project consists of the emoval or modification of five existing bridges that obstruct the vertical clearance needed for double-stack rail operations on the I-95 Corridor between Weldon, NC and Washington DC. The project also includes environment tudies and 30% design (preliminary plans) for two new bridges in Virginia.





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